

the CARRIER

W6CX



the MOUNT DIABLO AMATEUR RADIO CLUB

VOLUME XXXVI - ISSUE 12 - DECEMBER 1988

PRESIDENT VICKI's MESSAGE TO CLUB MEMBERS RECAPITULATING THE YEAR 1988

I WISH TO THANK THE CLUB MEMBERS FOR VOTING ME IN FOR YET ANOTHER YEAR AS YOUR PRESIDENT. I HAVE ENJOYED WORKING FOR THE CLUB THIS YEAR AND KNOW WE WILL HAVE ANOTHER GREAT YEAR IN 1989. WHAT MAKES A GREAT YEAR? I FIRMLY BELIEVE IT IS THE MEMBERS OF THIS CLUB! YOUR ATTENDANCE AT MEETINGS, WORKING OUR PUBLIC SERVICE EVENTS AND STANDING BEHIND YOUR BOARD MEMBERS.

LET US KNOW YOUR IDEAS, WE ARE ALWAYS OPEN TO THEM AND I ENCOURAGE YOU TO KEEP IT UP. I LIKE HEARING FROM YOU, EITHER IN PERSON OR BY TELEPHONE.

I AM HAPPY TO SAY WE REACHED OUR MEMBERSHIP GOAL OF 300 AT OUR LAST MEETING! NEEDLESS TO SAY, I AM THRILLED TO SEE THE CLUB PROSPERING. NEW BLOOD MINGLED WITH OLD IS WHAT MAKES A CREATIVE ORGANIZATION, ONE SUSTAINING THE OLD TRIED AND TRUE METHODS, THE OTHER STRIKING OUT INTO NEW PASTURES. ONE OF THESE NEW IDEAS WAS TO HAVE AN UPGRADED DOOR PRIZE AT EACH MEETING. DO YOU LIKE THIS? LET ME HEAR FROM YOU.

AS YOU HAVE HEARD, WE HAD AN EXCELLENT AUCTION THIS YEAR, THANKS TO HARD WORK FROM OUR AUCTION COMMITTEE. NEXT YEAR WE MAY HAVE TO EXPAND TO LARGER QUARTERS FOR THIS SPECIAL EVENT. IT HAS GROWN

TO MUCH LARGER PROPORTIONS THAN WE EVER IMAGINED IT WOULD. I WOULD LIKE TO TAKE THIS OPPORTUNITY TO THANK MY BOARD MEMBERS WHO HAVE BACKED ME UP ALL YEAR LONG WITH THEIR CONTINUED SERVICE TO OUR CLUB. DICK KT6X WHO GAVE US TREMENDOUS PROGRAMS THIS YEAR, DICK AA6DL WHO ALWAYS HAD A TIGHT REIN ON THE PURSE STRINGS, JANE N6NVA WHO TOOK THE SECRETARIAL JOB UNDER PROTEST BUT WHO HAS DONE ONE HECK OF A JOB IN KEEPING YOU UP TO DATE ON WHAT WE ARE DOING, JAY KT6Y, JIM KA6IVF, AND JIM AA6CK.

TO OUR NON-BOARD MEMBERS WHO HAVE GIVEN ENDLESSLY OF THEIR TIME AND TALENTS, LAUREN WA6CIE, GEORGE KI6YK, GEORGE WB6OFH, CARSON K6TI, JOE WA6DQN, SCOTT N6LGB, ART VE2AQV AND FINALLY OUR CARRIER EDITOR STAN WU6P. I HOPE I HAVE NOT MISSED ANYONE AS THESE PEOPLE GIVE YEAR AFTER YEAR AND DESERVE ALL THE CREDIT I CAN GIVE TO THEM AND MORE!

MY LAST REQUEST IS THREE FOLD; SUPPORT YOUR BOARD, KEEP COMING TO THE MEETINGS, RENEW YOUR MEMBERSHIP! YOU'RE WHAT MAKES THIS CLUB THE BEST!

MERRY CHRISTMAS TO YOU AND YOUR FAMILY AND A MOST HAPPY NEW YEAR TO ALL.

73, VICKI, N6KLS



MOUNT DIABLO MEDICAL CENTER
EMERGENCY ROOM CHIEF WAS GUEST
SPEAKER AT NOVEMBER 18 MEETING.
By the Editor

If you didn't attend the last monthly club meeting you missed an outstanding talk by our guest speaker.

If you did attend, here is a summary of the recommendations made by Dr. Shikora to help you when you enter a hospital under emergency circumstances.

Suppose you are going to the emergency room of a hospital, or regain your consciousness there as the result of an auto, or other, accident. Because of circumstances (maybe you didn't regain consciousness), suppose that you are not able to communicate with anyone; the emergency medical technicians, admitting personnel, doctors, nurses, friends, family.

YOU SHOULD HAVE IN YOUR POSSESSION
AT ALL TIMES OR INSTANTLY AVAILABLE:

- 1) Your 'MEDIC ALERT' bracelet or necklace.
- 2) Your doctor's name, address, and telephone.
- 3) Your dentist's name, address, and telephone.
- 4) Name of spouse, where he/she can be reached day or night, addresses, telephones.
- 5) Current list of medications by drug name, strength, and dosage. (Needed by physicians when prescribing to prevent interactions with other drugs). KEEP IT CURRENT.
- 6) A list of your allergies, or indicate, . . "No allergies".
- 7) Your current 'EKG' if needed.
- 8) If you're military, a copy of your last hospital discharge.
- 8) Insurance cards.
- 9) Names, addresses and telephone numbers of family, friends, loved ones whom you want to know about your situation.
- 10) State who will speak for you, and make decisions for you, if you are unable to.

11) Who will take care of your home in your absence? (Did you leave something baking in the oven? Lawn sprinklers on?).

12) If you have children in school, or day-care, who should be contacted? Who will take care for them? List alternates if the hospital cannot contact the first one(s) listed. KEEP IT CURRENT!

(What will happen to your children if this information is NOT available? ? ? ?).

13) Any other information pertinent to your circumstances.

14) Who will take you home from the hospital?

15) If you need clothes to leave the hospital, who will get them for you, how, where?

16) Have a change of underwear and a toothbrush available.

* * * * *

KEEP IN YOUR HOME, AND WHILE
TRAVELLING:

- 1) Fever reducer (Aspirin).
- 2) Syrup of ipecac.
- 3) Band-aids. Skin wound cleaner.
- 4) OTC Benedryl for allergies, bee stings, hives.
- 5) Strong pain killer (Physician approved).

* * * * *

CPR training is recommended and should be used in drowning or high voltage shock incidents.

Continue the procedures until you are sure they are no longer needed.

* * * * *

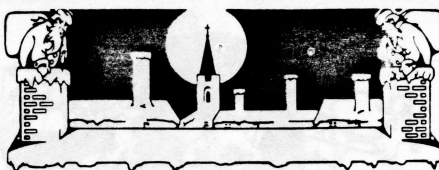
Dr. Shikora is the Chairman and Medical Director of the Department of Emergency Medicine at the Mount Diablo Medical Center (formerly Mount Diablo Hospital Medical Center), and President of the Medical Staff.

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A PHYSICIAN'S NIGHTMARE

Patient: I take a brown pill in the morning, a pink pill at noon, two white ones before dinner and a red, green and yellow one at bed time.

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"YOUR PLACE OR OURS" 1988
by Brad Watson WA6AEO, Chairman
Contra Costa Repeater Association

Via Packet

It's become a New Year's tradition for some of us, and it's that time again! It's your chance to help Ham Radio help our community.

Here's what happens - some of our fellow men and women go out and celebrate the coming new year. Sometime during the evening they realize they've done a tad bit too much celebratin'. That's where we come in!

There's a telephone number they call to get a free ride home and keep our roads safe and sane. The new car dealers provide the vehicles, Chevron provides the gas, McDonald's the food, Markstein Beverage the drinks, and others provide jackets for us to wear and print the flyers for publicity. We provide the radio communications between the vehicles and the Sheriff's Office (the Sheriff sponsors the whole event).

SINCE THIS PROGRAM HAS BEEN IN EFFECT, THERE HASN'T BEEN A NEW YEAR'S EVE ROAD FATALITY IN THE COUNTY. We're proud of this and we need your help to continue this trend. I have a few more openings as this is going to press. Also, we will need people to help get the flyers out to the public, so contact me if you can help with this.

HAPPY NEW YEAR !!!

DR. SHIKORA, Emergency Room Chief...
.....ALSO SAID.....

"If you are taking medications and have to go to an emergency room of a hospital, TAKE THE MEDICATIONS WITH YOU IN THEIR ORIGINAL CONTAINER."

NEW HAMS ON THE WAY !!!
By Brad Watson WA6AEO

Via Packet

Here's a brief status report on our local license examination sessions sponsored by the Contra Costa Repeater Association.

We have had over 150 people come through our doors. They have passed elements Novice through Extra. Many of these are brand new Novices, some graduated from the MDARC's own classes.

We have a great team of examiners very ably led by Gene Capener WW6H.

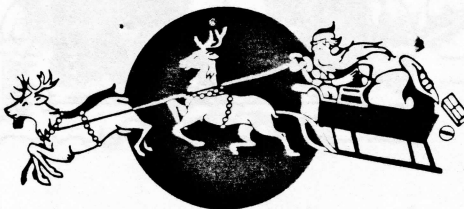
Thanks to the Concord Church of the Nazarene, we have a great atmosphere for these sessions.

Since the group in Pleasant Hill is no longer giving tests, we are the only ones doing so in the local area, and we plan to continue these sessions as long as there's a need. Be sure to spread the word, we're holding examinations the first Saturday of even numbered months at 1:30 PM, at the Concord Church of the Nazarene, 1650 Ashbury Drive in Concord.

So that we can provide the needed number of examiners, and make necessary special arrangements, we ask that handicapped persons or those needing special consideration for examinations, provide us one-month notice of their needs and attendance.

...CONCERNING UNLISTED TELEPHONES..
...DR. SHIKORA ALSO SAID.....

"If family or friends that should be contacted when you go to the emergency room have UNLISTED TELEPHONE NUMBERS, include them in the list of 'phone numbers in your possession. If you don't list the unlisted numbers, you create another problem for the hospital and yourself. !!!"



THANKS TO INSTRUCTORS OF MDARC
RADIO CLASSES- FALL SESSION 1988
By Jay Caldis, KT6Y
Education Chairman Via Packet

The Fall Session of the MDARC Radio Classes has been completed and has been very successful. This session was only for Novices, General and Tech licenses. We were able to license 18 new Novices and a few to General and Technician.

As usual it could not have been done without the volunteers that teach the classes. So I would like to give a big thank you to Chuck Patterson K6RK for teaching the General/Technician class, Scott Thomas N6LGB for the general code class and Mike Whitten KB6FHC for novice Theory class. They did a good job and the club owes them a big. . . . THANK YOU. . . .

1989 MDARC RADIO CLASSES
By Jay Caldis, KT6Y
Education Chairman

Via Packet

Next February we will be attempting to do all the license classes. I am in need of instructors for General and Technician classes, and maybe Advanced and Extra. We need back-up instructors in the event a regular instructor cannot teach a session.

The session will be for 10 weeks starting around the second week of February 1989. Please let me know if you can help. We cannot have the classes without the volunteer instructors.

See the next two issues of
'The Carrier' for more information.

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A FLY FLEW INTO A COW'S EAR AND
WOUND-UP IN THE PAIL OF MILK. IT WAS
'IN ONE EAR AND OUT THE UDDER'.
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GUESTS AT OUR LAST CLUB MEETING

DR. RICHARD MOLLBERG, K6PWF
844 HOPE LANE, LAFAYETTE, CA.

JOHN STUART
3449 SOLANA COURT, LAFAYETTE, CA.

THANKS FOR VISITING US !
PLEASE COME AGAIN !
YOU'RE ALWAYS WELCOME AT MDARC !

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..BE SAFE...ATTEND CLUB MEETINGS..

20% of all fatal accidents happen
in automobiles !
17% of all accidents happen in the
home !
16% of all accidents occur while
travelling by air !
14% of all accidents happen while
walking on the street !
.001% of all accidents occur at
amateur radio club meetings !

..BE SAFE...ATTEND CLUB MEETINGS..
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Something has gone wrong in our
automated society. When a traffic
signal turns green it activates the
horn on the automobile behind me !
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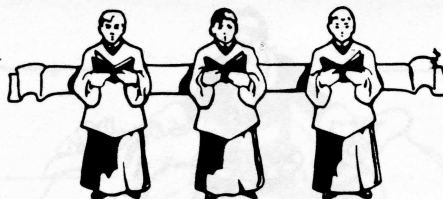
CHEVRON CORP. CONTRIBUTES TO RACES
By Don Ledwith, K7SDF Via Packet

I'm proud to announce that my
employer, Chevron Corporation, has
informed me they will contribute
\$750 to Contra Costa County RACES
for antenna equipment to help
complete the county-side packet
network interconnection.

Don, K7SDF and Bob, WBOYRD co-
sponsored the grant application.
Larry, W6CPO assisted in authoring
the application and determining
requirements on the part of RACES.

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SUPPORT SEARCH & RESCUE ! GET LOST!
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REPEATERS

147.06/+ 223.74/- 441.325/+

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NETS: RACES, CLUB, ATV, HF

RACES/ARES NETS

EVERY THURSDAY AT 1900 HOURS
>CENTRAL C.C.COUNTY 145.680/S<
JAMES HOUSE, KA6IVF, E.C.
372-0345

>EAST C.C.COUNTY 146.540/S<
WM.VAN VOORHIS, WA6ZFF, E.C.
754-1214

>SOUTH C.C.COUNTY 146.355/+R<
DR. GEORGE JONES, KI6YK, E.C.
837-9316

>WEST C.C.COUNTY 145.110/-R<
JAMES CROOKE, KB6JEC, E.C.
529-1900

QSY TO 147.735/-R AT 1920 HOURS

>MT.DIABLO AMATEUR RADIO CLUB NET<
THURSDAY 1930 HOURS 147.06/+R
JAY CALDIS KT6Y NET CONTROL
> ATV NET FOLLOWS AT 2000 HOURS<
MIKE SCOTT N6GOZ NET CONTROL
DON SMITH W6NKF ALTERNATE

CONTRA COSTA COUNTY EMERGENCY
RADIO SERVICES NET

FIRST THURSDAY FOLLOWING THE FIRST
WEDNESDAY 2000 HOURS 3895 KHz
HANK BERRYMAN W6ZHY AEC 934-9659

SHERIFF's RESERVE UNIFORMED
COMMUNICATIONS GROUP

FOR ALL INFORMATION CONTACT:

LARRY KAYE W6CPO-COOR. 933-6357
FREDA LUCIDO N6PWT 228-3609
BRAD WATSON WA6AEO 676-8239

=====

CLUB MAILING ADDRESS

MOUNT DIABLO AMATEUR RADIO CLUB
P.O.BOX 23222
PLEASANT HILL, CA 94523

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!!!! WANTED !!!!
VOICE CONTROL ACCESSORY
FOR SWAN 350 TRANSCEIVER
MODELS VX-1 OR VX-2
WITH MANUALS
JOE DEAS K6VLH
415-935-9136

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MDARC MEMBERSHIP DIRECTOY UPDATE

by George Jones, KI6YK

We would like to welcome the follow-
ing new members who have joined
MDARC in the past month:

AMSTEIN, Bill; Technician; 41 Mt.
Alpine Pl., Clayton, CA 94517
(415)-672-6589(h)
(415)-356-5759(w)

BEAVER, Jame Edward (Jim); KB6OBN,
Novice; 3813 Dove Ct., Antioch,
CA 94509 (415)-779-0314(w & h)

Congratulations to the following on
their upgrades and/or new calls:

GRCEVICH, Mike: General
HEUER, Karl: AA6LH, Extra
REQUIST, Tom: Advanced
WATSON, E. L. (Sam): KB6YKT, Novice

Don't forget that we need to know of
any upgrades or new calls so that we
can update our records and, more
importantly, let the other members
know. Just send them to the club
P.O. Box listed elsewhere in the
Carrier.

1989 MEMBERSHIP DUES

By now you should have received
your notice regarding MDARC dues for
1989. If you have not, let the
membership chairman, George Jones,
KI6YK, know right away at (415)-837-
9316. If you have received your
notice, be sure to take care of it
now so it isn't forgotten. Dues
are due by January 1st, 1989.

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 CLUB OFFICERS

PRESIDENT
 VICKI ZUMWALT N6KLS 458-4527
 VICE PRESIDENT
 DICK BROWN KT6X 676-9048
 SECRETARY
 JANE WALKER N6NVA 458-3164
 TREASURER
 DICK SCHULZE AA6DL 935-5000
 EMERGENCY COORDINATOR
 JAMES PERRY AA6CK 680-7676
 BOARD MEMBERS
 JAY CALDIS KT6Y 939-1893
 JIM HOUSE KA6IVF 372-0345

PUBLIC RELATIONS
 CARSON TAYLOR K6TI 820-5297

PUBLICATION-CIRCULATION-MEMBERSHIP
 DR. GEORGE JONES, KI6YK, CHAIRMAN
 325 GLEN ARMS DRIVE
 DANVILLE, CA 94526 837-9316

'THE CARRIER' NEWSLETTER EDITOR
 STAN CHRISTIAN WU6P
 5450 CONCORD BLVD. #C4
 CONCORD, CA 94521 672-0330

CONTRIBUTIONS TO 'THE CARRIER'
 (1) BY MAIL OR TELEPHONE
 (2) N6VV BBS 144.99 MHz

DEADLINE for contributions to the
 Newsletter: LAST DAY OF THE MONTH

 MEETING PLACE OF THE
 MOUNT DIABLO AMATEUR RADIO CLUB

GRACE PRESBYTERIAN CHURCH
 2100 TICE VALLEY BOULEVARD
 WALNUT CREEK

NO REGULAR MEETING IN DECEMBER

CLUB MEETINGS ARE HELD REGULARLY ON
 THE THIRD FRIDAY OF EACH MONTH 8 PM
 NEXT REGULAR MEETING JAN. 20, 1989

VISITORS ALWAYS WELCOME

 THE HISTORY OF THE
 NATIONAL TRAFFIC SYSTEM

....is being featured in the Public
 Service section of QST Magazine
 beginning in the November 1988
 issue on Page 69. The series of
 articles will review the history of
 the NTS, the system today, and its
 future if such a system is needed.

 MDARC BOARD MEETING MINUTES
 22 DEC. 1988

Attendees:

President Vicki Zumwalt N6KLS
 Secretary Jane Walker N6NVA
 Treasurer Dick Schulze AA6DL

Board members present:

Jay Caldis KT6Y - Jim House KA6IVF

Members present:

Carrier Editor S.Christian WU6P
 Membership Geo.Jones KI6YK
 Geo.Rousch WB6OFH
 Lauren Stiles WA6CIE

Pres. Vicki N6KLS called the
 meeting to order.

The minutes were approved.

Last minute Xmas party details were discussed.

The club is paying Santa's dinner, Jay Caldis made the motion, Jim House seconded.

HRO had donated a 220 HT for
 the Xmas party, Base Station is
 giving us certificates for \$50.
 \$40. and \$30. plus discounts on
 the other gifts.

All MDARC members in good
 standing will be able to win the
 radio.

Lauren Stiles gave us the
 results of Field Day, MDARC was
 19th out of 58 in class.

Board meeting 24 Jan. 1989,
 Vicki's home.

HAPPY NEW YEAR TO ALL.

Respectfully submitted,
 Jane Walker
 Secretary



Via Packet

ROCKY RIDGE NEWS
By Don Ledwith, K7SDF

MDARC CLUB MEETING MINUTES
18 NOV. 1988

An update from the Rocky Ridge Repeater Group meeting, Nov 16th.

TECH REPORT: We will be adding PL to 220 on Dec 3. No date has been set for the next PL install session (for converting 220 and pick up any missed 2M rigs). The 440 repeater will be going up in about a week and a half. Two meters has gotten real quiet because there's no garbage on it anymore (due in part to PL).

TREASURER'S REPORT: \$1694.87 in the bank with all bills paid.

THE AUTOPATCH: Rick will contact the FCC to get a decision whether novices can use the phone patch. The ruling (from unofficial comments at the Dayton Hamvention) appears to be that novices will be able to use the phone patch. Please ID when you use the touch tone pad. If you call the CHP, they don't care if you are a ham/mobile. Just the facts...BE BRIEF!!!

NEW BUSINESS: We have a new site agreement. The RRRG didn't get a raise in charges for power (there is no rent).

ELECTION OF OFFICERS: New RRRG Officers for 1989 are:

Chairman: Rick Barber WB6EZI
Tech Chairman: Keith Lattin N6PME
Treasurer: Norma Davis N6EJZ
At Large: Mike Scott N6GOZ
Mike Burke KB6RMT
Secretary: Don Ledwith K7SDF

NEW MEMBERS:

John WB6EFD-Gene N6SIR-Jim KB6OBN

Welcome to Rocky Ridge!!

Respectfully Submitted,
Don K7SDF
Secretary

Pres. Vicki N6KLS called the meeting to order.

No meeting in Dec. Having Xmas party instead.

Treas report: \$4658.92 (auction netted \$1273.75).

Club prizes: HRO gave the club a discount on a solder gun, which Paul N6PAC won, the Base Station gave free Atlas's.

Classes: Jay KT6Y will start Ham classes in Feb., and needs some teachers.

Yellow jackets: To order call Ray 254-7517.

Membership: When you get a renewal notice, pay your dues at that time. Club now has 300 members.!!!

Refreshments: Thank you George WB6OFH for having donuts and coffee.

New Years: Brad WA6AEO is in need of 15 Hams for "Your Place or Ours" 31 Dec. 1988, call him 676-8239 if you can help.

Election results:

| | | |
|---------------|-------|------------|
| Vicki Zumwalt | N6KLS | President |
| Dick Brown | KT6X | Vice Pres. |
| Jane Walker | N6NVA | Secretary |
| Dick Schulze | AA6DL | Treasurer |
| Jay Caldis | KT6Y | Board |
| Derek Brown | N6CUK | E.C. |

Speaker: Dr. Shikora our Nov. speaker didn't talk of aches and pains as you would suppose. The doctor was one of our better speakers thats for sure. Look further in the Carrier for story.

MERRY CHRISTMAS TO ALL !!!!

Respectfully submitted,
Jane Walker N6NVA
Secretary

YOUTH REVISITED

Ponce de Leon spent most of his life searching for the Fountain of Youth, never realizing that it exists within the human soul. In this respect we are all very much like him. We go onward and upward, which is fine, but we seldom stop for a look at what has been and still is, in our minds and beings. That past may be brought into the present in a myriad of ways. Here is how one facet of my very full running fountain came back to me.

As a mid- teenager I was very proud of my new Amateur Radio Operator ticket and my station license. I consorted with all the other hams I came to know at the Amateur Radio Research Club the "then" version of MDARC. We were to a man (and boy) dyed in the wool CW operators and had no patience with the "lids" who worked 80 meter AM phone. Our band was 40 meters and we pounded brass there early and late. There were excursions onto 20 meters and once in awhile on ten but 90 per cent of the time you would hear the dits and dahs flying on 40 meters. There were rag chews and DX, once in awhile a real emergency like the Long Beach earthquake or a sailor at sea who was being operated upon by a mate being directed by a doctor in your city through you. Heavy stuff for young minds. The big item was traffic handling. Every month the leaders in traffic were listed in the Brass Pounders League in QST. Of course working CW every day and with many very fine ops you get pretty fast. My problem was, most of them used Vibroplex "Bugs" and I was clipping it along on a straight key. Naturally I couldn't go as fast as they so I asked Santa to bring me a bug for Christmas. By golly, sure enough he did. My parents listened to the old gentlemen with the white beard and gave me a beautiful chrome and black model actually not a Vibroplex but a Speedoplex made by Leach Relay Corporation of San Francisco. It did a great job and I was soon up there with the rest, 35-40 wpm and a GREAT feel to it. Every fist had its own rhythmic sound. You could tell the old navy or marine types with their rolling gate, the telegraphers from Western Union and all the rest with distinctive styles. You knew everyone. What a life ! Mercury rectifiers flashing blue, the plate of the 852 glowing cherry red, the RF crackling up the open wire

feeders to the zepp antenna as you whipped the ole bug up to a frenzy and stayed up all night. This was living ! In winter the heat from the final kept you from freezing. The UX-852 was a great tube used all over the world. Rated at 75 watts max plate dissipation, it was a pretty poor ham who could not send 500 to 1000 watts scrambling up his antenna feeders. Even though you had meters in all the circuits, the only way to really get cracking was by watching the plate as you tuned up. When the right color of red was reached (just short of the melting point) you knew it was ready to go. However, all things change. WWII silenced the speeding keys and dimmed the flashing lights. Hams were off the air. Bugs were packed away and sometimes never again sang their merry song. For others it was a long time and then SSB, repeaters on 2, satellites and electronic keyers kept most of these great keys quiet. That is what happened to Speedoplex serial 1574, a keyer and a Bencher paddle took its place. But it was never the same, no feel, no rhythm of the operator. All too perfect, too sterile. I almost never worked CW anymore. I hated that darned contraption but alas ! the speedoplex was corroded and wouldn't even move. I placed it gently on the shelf with the 813's, a 201A and some other Dinosaurs, all that is left of those bygone times. Last week K4ZK an old and dear friend came to town. I took him to the MDARC auction and next day we were talking about keyers. He still uses his bug and is comfortable copying at 55 or better. We decided to see what could be done with mine. Many doses of WD 40 finally got the screws loose and the parts were dropped into three different acid baths which removed the corrosion and the shiny finish. My friend left but I persisted and I got it swinging along. About 15 QSO's later having covered most of Europe and a good part of Asia I realized, IT WORKS. I was 15 again and back at the key HAVING FUN. The years had vanished and memories came flooding down. So many contacts, so many friends, so very much to remember. It all came back with the resurrection of that funny looking contraption that is a joy to handle. It is a bit dull looking but then so am I, so what ! It brought alive so many shinning hours, so many lives I have touched by using it. Many became life-long friends. What a treasure! To revisit youth and live !

***** 73 K6TI Carson *****

WORLDWIDE DISTRIBUTION



HAM RADIO OUTLET

LARGEST HAM OUTLET IN THE WORLD

FREE SHIPMENT
MOST ITEMS UPS SURFACE

7

STORE BUYING POWER



KENWOOD

concept

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ACCESSORIES

ICOM

NOW! RAPID DELIVERIES

COAST
TO COASTFROM STORE NEAREST YOU
LOW, LOW PRICE

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TIME
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CORPORATION

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Applications

All Major Brands in Stock Now!



Bob Ferrero W6RJ
President
Jim Rafferty N6RJ
VP So. Calif. Div.
Anaheim Mgr.

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2620 W. La Palma
(714) 761-3033 (213) 860-2040
Between Disneyland &
Annis Berry Farm

ATLANTA, GA 30340
6071 Buford Hwy
(404) 263-0700
Larry, Mgr. WD4AGW
Doraville 1 mi. north of I-285

BURLINGAME, CA 94010
999 Howard Ave
(415) 342-5757
George Mgr. WB6DSV
5 miles south on 101 from SFO

OAKLAND, CA 94608
2210 Livingston St.
(415) 534-5757
Al, Mgr. WA6SYK
17N 5th Ave / 17S 16th Ave

PHOENIX, AZ 85015
1702 W. Camelback Rd
(602) 242-3515
Bob Mgr. K7RDH
East of Hwy 17

SAN DIEGO, CA 92123
5375 Kearny Villa Rd
(619) 560-4900
Tom, Mgr. KM6K
Hwy 163 & Claremont Mesa Blvd

VAN NUYS, CA 91411
6265 Sepulveda Blvd
(818) 988-2212
Al, Mgr. K6YRA
San Diego Fwy
at Victory Blvd

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CLOSED SUNDAYS



CALL TOLL FREE (800) 854-6046



Toll free including Hawaii. Phone hrs: 7:00 am to 5:30 p.m. Pacific Time. California, Arizona and Georgia customers call or visit nearest store.
California, Arizona and Georgia residents please add sales tax. Prices, specifications, descriptions subject to change without notice.

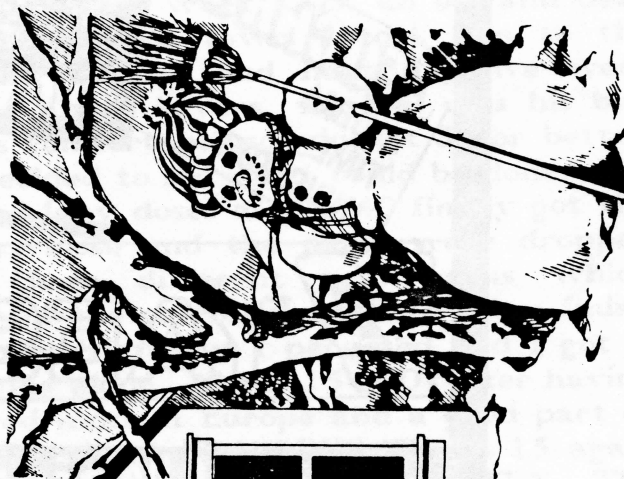


THE BASE STATION

YOUR CONTRA COSTA HAM HEADQUARTERS
FOR AMATEUR RADIO NEEDS

| | | |
|-----------|-------------|------------------|
| AEA | CUSHCRAFT | BALUNS |
| AVANTI | GORDON WEST | CALLBOOKS |
| ASTRON | HUSTLER | COAX CABLE |
| ARRL | LARSEN | CONNECTORS |
| AMECO | MFJ | FERRITE RODS |
| B & W | NYE | HAM PUBLICATIONS |
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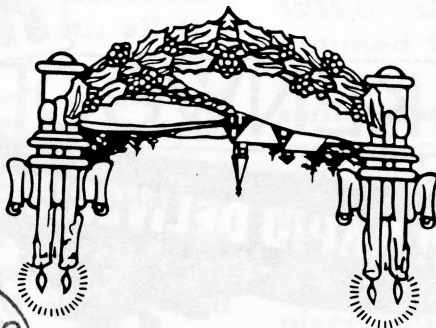
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